1 APPLICATION 3
2 DESCRIPTION (FIG. A) 3
3 PACKAGE CONTENT LIST 3
4 SYMBOLS 4
5 GENERAL POWER TOOL SAFETY WARNINGS 4
5.1 Work area 4
5.2 Electrical safety 4
5.3 Personal safety 4
5.4 Power tool use and care 5
5.5 Service 5
6 SPECIFIC SAFETY WARNINGS FOR CIRCULAR SAWS 5
7 ADDITIONAL SAFETY INSTRUCTIONS FOR LASERS 6
8 ADJUSTMENTS 6
8.1 Replacing the saw blade (Fig. 1) 6
8.2 Adjusting the depth of cut (Fig. 2) 6
8.3 Setting the mitre angle (Fig. 3) 7
8.4 Mounting the guide bar (Fig. 4) 7
9 OPERATION 7
9.1 Instructions for use 7
9.2 Switching on and off (fig. 5) 7
9.3 Dust extraction 7
9.4 Laser beam 7
10 CLEANING AND MAINTENANCE 8
10.1 Cleaning 8
10.2 Lubrication 8
11 TECHNICAL DATA 8
12 NOISE 8
13 SERVICE DEPARTMENT 8
14 STORAGE 9
15 WARRANTY 9

Copyright © 2015 VARO

16 ENVIRONMENT 9
17 DECLARATION OF CONFORMITY 10

CIRCULAR SAW 1500W
POWX0520

1 APPLICATION

Your circular saw has been designed for sawing wooden workpieces. The machine is only suitable for right-hand use. The machine is not suitable for stationary use.
It is not designed for commercial use.

WARNING! Read this manual and general safety instructions carefully before using the appliance, for your own safety. Your power tool should only be passed on together with these instructions.

2 DESCRIPTION (FIG. A)

1. On/off switch
2. Lock-off button
3. Dust extraction outlet
4. Scale for saw blade depth (depth gauge)
5. Adjusting screw for depth of cut
6. Auxiliary handle
7. Main handle
8. Scale for mitre angle
9. Lock lever for angle adjustment
10. Base plate
11. Adjusting screw for guide bar
12. Guide bar
13. Laser on/off switch
14. Laser
15. LED
16. Lower guard
17. Lever of lower guard
18. Lock screw

3 PACKAGE CONTENT LIST

- Remove all packing materials
- Remove remaining packaging and transit supports (if existing)
- Check the completeness of the packing content
- Check the appliance, the power cord, the power plug and all accessories for transportation damages.
- Keep the packaging materials as far as possible till the end of the warranty period. Dispose it into your local waste disposal system afterwards.

WARNING Packing materials are no toys! Children must not play with plastic bags! Danger of suffocation!

1 x spanner
1 x guide bar
1 x saw blade
1 x dust pipe

When parts are missing or damaged, please contact your dealer.

Copyright © 2015 VARO

4 SYMBOLS

In this manual and/or on the machine the following symbols are used:

	Denotes risk of personal injury or damage to the tool.		In accordance with essential requirements of the European directive(s).
	Read manual before use.		"Class II - The machine is double insulated; Earthing wire is therefore not necessary.
	Always wear protective gloves		Always wear safety goggles

5 GENERAL POWER TOOL SAFETY WARNINGS

Read all safety warnings and all instructions. Failure to follow all warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

5.1 Work area

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

5.2 Electrical safety

Always check that the power supply corresponds to the voltage on the rating plate.

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

5.3 Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used whenever conditions require will reduce personal injuries.
- Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

5.4 Power tool use and care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or sticking of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to stick and are easier to control.
- Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could lead to a hazardous situation.

5.5 Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

6 SPECIFIC SAFETY WARNINGS FOR CIRCULAR SAWS

- Make sure that all devices screening the saw blade are in perfect working order.
- Make sure that the saw blade is screened correctly. Especially observe the following instructions:
  - Never block the saw blade guard. Repair a jammed saw blade guard before using the machine again.
  - Replace a broken tension spring before using the machine again.
  - Never remove the riving knife. The distance between the toothed rim and the riving knife should be 5 mm maximum. The height difference between the riving knife and the toothed rim should be 5 mm maximum.
- Do not use saw blades made of HSS steel.

- Do not use bent, deformed or otherwise damaged saw blades.
- Do not use saw blades which do not meet the specifications stated in this manual.
- Before sawing, remove all nails and other metal objects from the workpiece.
- Never start sawing before the saw reaches its full speed.
- Securely clamp the workpiece. Never attempt to saw extremely small workpieces.
- Only put the machine aside after switching off and when the saw blade has come to a complete standstill.
- Never try to slow the saw blade down by exerting pressure on the side.
- Before performing maintenance to the machine, always unplug the machine.

7 ADDITIONAL SAFETY INSTRUCTIONS FOR LASERS

Leaser beam warning

Laser beam characteristics

- Warning! The laser beam potentially causes severe eye damage. Never look or stare directly into the leaser beam.
- During use, do not point the laser beam at people, directly or indirectly through reflecting surfaces.
- This laser complies with class 2 according to EN 60825-1:2007. The unit includes no servicing components. Do not open the housing for any reason. If the unit is damaged, have the damage repaired by an authorized repair agent.

8 ADJUSTMENTS

8.1 Replacing the saw blade (Fig. 1)

Only use sharp and undamaged saw blades. Cracked or bent saw blades must be replaced immediately.

- Place this circular saw on its side on a flat surface. Advice you bring the base plate (10) down as if a minimum depth cut which is ease to operate.
- Push the spindle lock button toward motor housing as the arrow shows in Fig. 1 and firmly hold it.
- Turn the blade clamp bolt anti-clockwise by using the spanner that supplied with the tool.
- Remove the blade clamp bolt and outer flange.
- Raise the lower guard (16) by using the lever for lower guard (17), and then remove the saw blade.
- Clean the saw blade flanges, then mount the new saw blade onto the output spindle and against the inner flange.
- Make sure the saw teeth and arrow on the blade is to be the same direction as the arrow on the lower guard.
- Reinstall the outer flange, and tighten the blade clamp bolt.
- Make sure that the saw blade runs freely by turning the blade by hand.

Before replacing the saw blade always unplug the tool.

8.2 Adjusting the depth of cut (Fig. 2)

The depth of cut is infinitely adjustable. A clean cut is achieved with the saw blade protruding from the material by approx. 3 mm.

- Loosen the adjusting screw for depth adjustment (5).

- Hold the base plate (10) flat against the edge of the work piece and lift the body of the saw until the blade is at the right depth determined by the depth gauge (4) (align the scale line).
- Tighten the adjusting screw for depth adjustment.

8.3 Setting the mitre angle (Fig. 3)

The mitre angle is infinitely variable between 0° and 45°.

- Loosen the lock lever for angle adjustment (9).
- Adjust the base plate to the desired angle between 0° to 45°. [See Scale for mitre angle (8)].
- Tighten the lock lever for angle adjustment.

8.4 Mounting the guide bar (Fig. 4)

The parallel fence allows sawing parallel to an edge at a maximum distance of 10 cm.

- Loosen the adjusting screw of guide bar (11).
- Slide the guide bar (12) through the slots in the base plate to the desired width.
- Tighten the adjusting screw to secure it in the position.
- Ensure that the guide bar rests against the wood along its entire length to give consistent parallel cuts.

9 OPERATION

9.1 Instructions for use

- Clamp the workpiece. Make sure that the side which will be visible later is facing down, because the cut is most accurate at that side.
- Switch on the machine before it touches the workpiece. Do not exert pressure on the saw blade. Allow the machine enough time to cut the workpiece.
- Hold the machine with both hands using both grips. This ensures optimum control over the machine.
- For straight cuts along a drawn line use the marking for straight cuts.
- For bevel cuts along a drawn line use the marking for bevel cuts.

9.2 Switching on and off (fig. 5)

- To switch the tool on, keep the lock-off button (2) depressed and press the on/off switch (1).
- To switch the tool off, release the on/off switch.

9.3 Dust extraction

A vacuum cleaner can be connected to the dust extraction outlet, either directly to the connector or using an adapter.

- If necessary, connect an adapter to the extraction outlet.

9.4 Laser beam

The laser beam is used for projection of the cut on the workpiece.
Switch the laser (14) on by means of the laser on/off switch (13). If you press again the LED light works and if you press a 3rd time, the LED light as well as the laser will work.

- Place the machine on the workpiece with the saw marking above the start of the cutting line.
- Check that the laser line aligns with the cutting line as marked on the workpiece.
- Switch on the machine.
- Follow the “instructions for use” to perform a cut.
- After use , switch off the laser.

10 CLEANING AND MAINTENANCE

Attention !Before performing any work on the equipment, pull the power plug.

10.1 Cleaning

- Keep the ventilation slots of the machine clean to prevent overheating of the engine.
- Regularly clean the machine housing with a soft cloth, preferably after each use.
- Keep the ventilation slots free from dust and dirt.
- If the dirt does not come off use a soft cloth moistened with soapy water.

Never use solvents such as petrol, alcohol, ammonia water, etc. These solvents may damage the plastic parts.

10.2 Lubrication

From time to time, apply a drop of oil to the thread of the lock screw (18).

11 TECHNICAL DATA

Voltage / frequency	230-240 V / 50 Hz
Power input	1500 W
No load speed	5500 min^{-1}
Saw blade	Ø 185 x Ø 20 x 2.4 mm
Max. depth of cut 90°	64 mm
Max. depth of cut 45°	40 mm
Mitre angle	0 – 45°

12 NOISE

Noise emission values measured according to relevant standard. (K=3)

Acoustic pressure level LpA	100 dB(A)
Acoustic power level LwA	111 dB(A)

ATTENTION! Wear hearing protection when sound pressure is over 85 dB(A).

aw (Vibration)	2,4 m/s^2	K = 1.5 m/s^2

13 SERVICE DEPARTMENT

- Damaged switches must be replaced by our after-sales service department.
- If the connecting cable (or mains plug) is damaged, it must be replaced by a particular connecting cable which is available from our service department. Replacement of the connecting cable must only be carried out by our service department (see last page) or by a qualified person (qualified electrician).

14 STORAGE

- Thoroughly clean the whole machine and its accessories.
- Store it out of the reach of children, in a stable and secure position, in a cool and dry place, avoid too high and too low temperatures.
- Protect it from exposure to direct sunlight. Keep it in the dark, if possible.
- Don't keep it in plastic bags to avoid humidity build-up.

15 WARRANTY

- This product is warranted for a 36-month period effective from the date of purchase by the first user.
- This warranty covers all material or production flaws excluding : batteries, chargers, defective parts subject to normal wear & tear such as bearings, brushes, cables, and plugs, or accessories such as drills, drill bits, saw blades, etc. ; damage or defects resulting from maltreatment, accidents or alterations; nor the cost of transportation.
- Damage and/or defects resulting from inappropriate use also do not fall under the warranty provisions.
- We also disclaim all liability for any bodily injury resulting from inappropriate use of the tool.
- Repairs may only be carried out by an authorised customer service centre for Powerplus tools.
- You can always obtain more information at the number 00 32 3 292 92 90.
- Any transportation costs shall always be borne by the customer, unless agreed otherwise in writing.
- At the same time, no claim can be made on the warranty if the damage of the device is the result of negligent maintenance or overload.
- Definitely excluded from the warranty is damage resulting from fluid permeation, excessive dust penetration, intentional damage (on purpose or by gross carelessness), inappropriate usage (use for purposes for which the device is not suitable), incompetent usage (e.g. not following the instructions given in the manual), inexpert assembly, lightning strike, erroneus net voltage. This list is not exhaustive.
- Acceptance of claims under warranty can never lead to the prolongation of the warranty period nor commencement of a new warranty period in case of a device replacement.
- Devices or parts which are replaced under the warranty therefore remain the property of Varo NV.
- We reserve the right to reject a claim whenever the purchase cannot be verified or when it is clear that the product has not been properly maintained. (Clean ventilation slots, carbon brushes serviced regularly, etc.).
- Your purchase receipt must be kept as proof of date of purchase.
- Your appliance must be returned undismantled to your dealer in an acceptably clean state, (in its original blow-moulded case if applicable to the unit), accompanied by proof of purchase.

16 ENVIRONMENT

Should your appliance need replacement after extended use, do not discard it with the household rubbish but dispose of it in an environmentally safe way.
Waste produced by electrical machine items should not be handled like normal household rubbish. Please recycle where recycle facilities exist. Check with your Local Authority or retailer for recycling advice.

Copyright © 2015 VARO

17 DECLARATION OF CONFORMITY

CE

VARO N.V. - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM, declares that,
product: Circular saw
trade mark: POWERplus
model: POWX0520

is in conformity with the essential requirements and other relevant provisions of the applicable European Directives, based on the application of European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amendments up to the date of signature);
2011/65/EU
2004/108/EC
2006/42/EC

European harmonized standards (including, if applicable, their amendments up to the date of signature);
EN60745-1 : 2009
EN60745-2-5 : 2010
EN55014-1 : 2006
EN55014-2 : 1997
EN61000-3-2 : 2006
EN61000-3-11 : 2000

Keeper of the Technical Documentation : Philippe Vankerkhove, VARO – Vic. Van Rompuy N.V.

The undersigned acts on behalf of the company CEO,

Philippe Vankerkhove
Regulatory Affairs – Compliance Manager
Date: 12/03/2014